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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/822,156	03/28/2001	Brian K. Schmidt	0007056-0059/P5319/BBC	6300	
75	590 10/18/2004		EXAMINER		
BRIAN M. BERLINER, ESQ.			ZHEN, LI B		
O'MELVENY & MYERS LLP 400 SOUTH HOPE STREET		ART UNIT	PAPER NUMBER		
LOS ANGELE	S, CA 90071-2899		2126		
			DATE MAILED: 10/18/2004	DATE MAILED: 10/18/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No).	Applicant(s)	4/				
	09/822,156		SCHMIDT, BRIAN	K				
Office Action Summary	Examiner		Art Unit					
	Li B. Zhen		2126					
The MAILING DATE of this communication app Period for Reply	pears on the cov	er sheet with the c	orrespondence addı	ress				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, how y within the statutory m will apply and will expire, cause the application	wever, may a reply be tim inimum of thirty (30) days e SIX (6) MONTHS from to become ABANDONEI	nely filed s will be considered timely. the mailing date of this com D (35 U.S.C. § 133).	munication.				
Status								
1) Responsive to communication(s) filed on 13 A	uaust 2004.							
· ·								
3) Since this application is in condition for allowar	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims								
4) ☐ Claim(s) 1-8 and 17-24 is/are pending in the ap 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-8 and 17-24 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	wn from conside							
Application Papers								
9)☐ The specification is objected to by the Examine	er.							
10)☐ The drawing(s) filed on is/are: a)☐ acce	epted or b)□ ol	ojected to by the E	Examiner.					
Applicant may not request that any objection to the		•	` '					
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex				` '				
Priority under 35 U.S.C. § 119								
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori	s have been red s have been red rity documents h u (PCT Rule 17.	eived. eived in Application nave been receive 2(a)).	on No ed in this National St	tage				
Attachment(s)								
I) X Notice of References Cited (PTO-892)	4) [Interview Summary ((PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	,	Paper No(s)/Mail Da	te	150				
B) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		Other:	atent Application (PTO-1	102)				

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DETAILED ACTION

1. Claims 1 - 8 and 17 - 24 are pending in the current application.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1 8 and 17 24 rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 6,496,871 to Jagannathan et al. [hereinafter Jagannathan] in view of "Migration of Processes, Files, and Virtual Devices in the MDX Operating System," [hereinafter Schrimpf, cited in the previous office action].
- 4. As to claims 1 and 17 Jagannathan teaches the invention substantially as claimed including a method for caching an active computing environment comprising:

encapsulating a plurality of interconnected processes [collection of threads or concurrently executing tasks] into a compute capsule [agent] for representing the active computing environment [col. 8, line 65 – col. 9, line12];

encapsulating a system environment [transmit object and task state among machines of potentially different types; col. 17, lines 16 - 33] interconnected with the interconnected processes into the compute capsule [col. 9, lines 8 - 13]; and

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obtaining the interconnected processes in the compute capsule [After the Machine B communication system receives the agent migration data for Subagent A; col. 18, lines 3-23].

5. Although Jagannathan teaches the invention substantially, Jagannathan does not specifically teach determining a state of the capsule and caching the interconnected processes and the state.

However, Schrimpf teaches mobilizing a system object, determining a state of the compute capsule [e.g. p. 77, section 5.3 first paragraph] and caching the interconnected processes and the state [e.g. p. 77 section 5.3].

- 6. It would have been obvious to a person of ordinarily skilled in the art at the time of the invention to apply the teaching of determining a state of the capsule and caching the interconnected processes and the state as taught by Schrimpf to the invention of Jagannathan because this allows the context data structure of the processes to be patched at a destination system and allows the processes to execute at the destination system [p. 77, section 5.3, lines 10 14 of Schrimpf], which provides load balancing in distributed systems to employ all available processors and keep work queues similar in length [p. 70, section 1, lines 1 2 of Schrimpf].
- 7. As to claims 2 and 18, Jagannathan as modified teaches relocating said active computing environment to a new location [e.g. p. 76, section 5.1 and p. 77 section 5.3 of Schrimpf].

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8. As to claims 3 and 19, Jagannathan as modified teaches halting said active computing environment and re-starting said active computing environment in said new location using said state [e.g. p 76 section 5.1 and p. 77 section 5.3 of Schrimpf].

- 9. As to claims 4 and 20, Jagannathan as modified teaches that the said state comprises and inter-process communication (IPC) state [e.g. p. 77 last paragraph of Schrimpf].
- 10. As to claim 5 and 21, Jagannathan as modified teaches that the said state comprises a virtual memory state [e.g. p. 77 section 5.3 of Schrimpf].
- 11. As to claims 6 and 22 Jagannathan as modified teaches that the said state comprises a device state [e.g. p. 77 section 5.3 of Schrimpf].
- 12. As to claims 7 and 23, Jagannathan as modified teaches that the said state comprises a file system state [e.g. p. 77 section 5.3 of Schrimpf].
- 13. As to claims 8 and 24, Jagannathan as modified teaches that the said state comprises a central processing unit state [e.g. p. 77 section 5.3 of Schrimpf].

Response to Arguments

14. Applicant's arguments with respect to the claims have been considered but are most in view of the new ground(s) of rejection.

Conclusion

15. Applicant's amendment filed on March 25, 2004 necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

16. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Li B. Zhen whose telephone number is (571) 272-3768. The examiner can normally be reached on Mon - Fri, 8:30am - 5pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng-Ai An can be reached on (571) 272-3756. The fax phone number for

the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the

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Business Center (EBC) at 866-217-9197 (toll-free).

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lbz October 6, 2004

SUPERVISORY PATENT EXAMINER

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